Physical Indicators

	Trophic	Ecological		
Physical	Status	Integrity	Recreation	Notes
				May be important
Lake area			1, B	normalizer
				See NALMS 05
Littoral habitat /woody debris		1	1, F	examples
				On-shore, land use or
Shoreline features		1	1, B	vegetation
				Includes rate of
Water level variability		1	1, B	change
Basin morphometry	2		1, B	Bathymetry
Characteristics of watershed	2	1		Land use, geology
Access considerations			1, S, B	Beaches, boat ramps
Boating (density, types)			1, B	Also regulations
				Concern over one
Water clarity (SDT)	1	1	1, S,B, F	time measure
				Related to but
Turbidity/TSS/TVS	2	1	1, S, B, F	separate from SDT
Color	2			

1 = highest priority S=swimming B=boating F=fishing

Chemical Indicators

	Trophic	Ecological		
Chemical	Status	Integrity	Recreation	Notes
Temperature	1	1	2, S, F	Profiles
				Profiles, 24-72 hr
Oxygen	1	1	2, F	period
Conductivity	1	1		Important surrogate
TP	1			Top and bottom
TN	2			Top and bottom
Nutrient loading	2			Conc. X flow
рН		1		
Alkalinity		1		
Metals		1		Need specific choices
				Need specific
Sediment contam/toxicity		1		choices/or tox test
Organics/endo disrupt.		1		Need specific choices

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Ranking of Biological Indicators

	Trophic	Ecological		
Biological	Status	Integrity	Recreation	Notes
E. coli			1, S	Pathogen indicator
Enterococci			1, S	Pathogen indicator
Fecal coliform			1, S	Pathogen indicator
				Concern over one time
Chl a	1	2	1, S	measure
Phytoplankton comp/abund		2	1, S	Indicators
Paleo-algal assessment	1	1		Longer term picture
				Nutrient limitation, growth
Algal Growth Potential	1			support
Algal toxins	1	2	1, S	Need specific choices
Macrophyte comp/abund	2	1	1, S, B, F	Includes invasive species
Zooplankton comp/abund		2		
				Potentially important
Zooplankton size distribution		2		surrogate
Macroinvertebrate comp/abund		1		Littoral, profundal split
				Littoral, pelagic, game, non-
Fish composition/abundance		1	1, F	game
Fish size or age structure		1	1, F	
Fish condition/parasites/disease		1	1, F	Condition as L:W relation
				Direct measure not part of
Fish tissue contam/advisories		1	1, F	study?
Bird composition/abundance		3		
Amphibian comp/abund		3		Disfiguration assessment?
Isotopes for trophic level		3		???

1 = highest priority S=swimming B=boating F=fishing